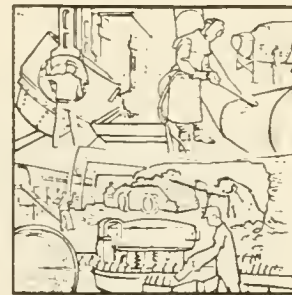


CURRENT INDUSTRIAL REPORTS

**Manufacturers' Shipments,
Inventories, and Orders**

June 1976



FOR RELEASE: August 2, 1976 2:00 P.M.

William Menth
763-2502

SERIES: M3-1(76)-6

All figures in text below are in seasonally adjusted current dollars

Manufactures reported significant increases in their inventories and backlog of unfilled orders as of the end of June, while June shipments and new orders received were virtually unchanged from their May levels, the Bureau of the Census, Department of Commerce, reported today. June shipments were \$94,028 million compared to May shipments of \$94,087 million, while new orders for these months were \$95,501 million in June and \$95,494 million in May. The 1.2 percent or \$1,472 million increase in backlog of unfilled orders continues the upward trend which began in March.

The rise in total inventories of 1.2 percent or \$1,738 million to \$150,777 million is the largest increase since December 1974. The June increase follows a limited rise in May (0.6 percent or \$918 million) and results in a \$2,627 million or 1.8 percent change for the second quarter. The changes in inventories reflect the trend of nearly all industries, both durable and nondurable. Some of the largest inventory increases include those in motor vehicles and parts (\$221 million or 3.5 percent), blast furnaces and steel mills (\$220 million or 2.7 percent), petroleum and coal products (\$200 million or 4.6 percent) and chemicals (\$159 million or 1.4 percent). All components of inventories increased with the leading increase in finished goods (1.5 percent or \$701 million), followed by materials and supplies (1.1 percent or \$568 million) and work-in-process (1.0 percent or \$469 million).

Changes in shipments and new orders varied considerably among the industry groups. Durable goods shipments rose \$412 million or 0.9 percent to \$48,733 million and new orders rose \$623 million or 1.3 percent to \$50,304 million. Nondurable goods shipments declined by \$471 million or 1.0 percent to \$45,295 million and new orders declined by \$616 million or 1.3 percent to \$45,197 million. The major decline in nondurable goods was in the foods industries where

shipments declined by \$303 million or 2.1 percent to \$14,229 million.

The pattern of change in durable goods is unchanged from the advance report issued last week. The blast furnace and steel mill industry showed a 4.1 percent or \$162 million increase in shipments and a 13.8 percent or \$689 million decline in new orders. This decline in new orders followed a \$1,351 million or 37.2 percent increase in new orders in May. Motor vehicle and parts producers reported a \$765 million or 9.6 percent increase in shipments to \$8,774 million in June from \$8,009 million in May. Defense capital goods producers (which includes the defense related portions of the communication equipment, aircraft and aircraft parts, shipbuilding and ordnance industries) reported a \$199 million or 10.3 percent decline in shipments accompanied by a \$680 million or 32.9 percent increase in new orders. Nondefense-capital goods producers reported an increase of \$141 million or 1.2 percent in shipments to \$11,807 million and a \$172 million or 1.5 percent increase in new orders to \$11,836 million.

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 20, 1976 and the full report is scheduled for release on August 31, 1976.

This report contains data on an unadjusted and seasonally adjusted basis. However, the data are not adjusted for price changes. For an explanation of terms used in this report see appendix following table 5.



U.S. Department of Commerce BUREAU OF THE CENSUS

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233 or any Department of Commerce District Office.
Price: 30 cents per copy, \$3.60 per year.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP

Millions of dollars¹

| Industry group | Shipments | | | | | | Total inventories | | | | | |
|--|------------------------|-----------------------|-----------|--|-----------------------|-----------|------------------------|-----------------------|-----------|--|-----------------------|-----------|
| | Seasonally adjusted | | | Without seasonal adjustment ¹ | | | Seasonally adjusted | | | Without seasonal adjustment ¹ | | |
| | June 1976 ^D | May 1976 ^F | Apr. 1976 | June 1976 ^D | May 1976 ^F | June 1975 | June 1976 ^D | May 1976 ^F | Apr. 1976 | June 1976 ^D | May 1976 ^F | June 1975 |
| All manufacturing industries: | | | | | | | | | | | | |
| Total..... | 94,028 | 94,087 | 93,848 | 99,294 | 94,864 | 85,580 | 150,777 | 149,039 | 148,121 | 150,816 | 150,159 | 148,160 |
| Total, excluding transportation..... | 81,928 | 82,700 | 82,234 | 86,317 | 82,903 | 75,449 | 128,817 | 127,391 | 126,623 | 129,321 | 128,592 | 127,116 |
| Durable goods industries, total..... | 48,733 | 48,321 | 47,741 | 52,316 | 49,363 | 43,785 | 97,476 | 96,579 | 96,133 | 97,525 | 97,401 | 98,910 |
| Stone, clay, and glass products..... | 2,380 | 2,352 | 2,374 | 2,606 | 2,448 | 2,321 | 3,655 | 3,610 | 3,568 | 3,716 | 3,727 | 3,753 |
| Primary metals, total..... | 7,743 | 7,595 | 7,096 | 8,240 | 7,913 | 6,350 | 14,662 | 14,442 | 14,227 | 14,493 | 14,389 | 14,144 |
| Blast furnaces, steel mills..... | 4,089 | 3,927 | 3,672 | 4,286 | 4,057 | 3,195 | 8,406 | 8,186 | 7,979 | 8,221 | 8,112 | 7,599 |
| Nonferrous metals..... | 2,472 | 2,485 | 2,283 | 2,675 | 2,647 | 2,014 | 4,682 | 4,704 | 4,718 | 4,658 | 4,690 | 4,764 |
| All other primary metals..... | 1,182 | 1,183 | 1,141 | 1,279 | 1,209 | 1,141 | 1,574 | 1,552 | 1,530 | 1,614 | 1,587 | 1,781 |
| Fabricated metal products total..... | 6,037 | 6,228 | 5,994 | 6,462 | 6,256 | 5,248 | 10,556 | 10,638 | 10,692 | 10,785 | 10,810 | 11,654 |
| Metal cans, barrels, and drums..... | 597 | 634 | 600 | 681 | 636 | 647 | 907 | 874 | 905 | 970 | 916 | 1,062 |
| Machinery, except electrical, total..... | 8,024 | 8,129 | 8,077 | 8,830 | 8,331 | 8,122 | 20,915 | 20,797 | 20,851 | 20,925 | 20,975 | 22,128 |
| Engines and turbines..... | 589 | 634 | 651 | 702 | 647 | 619 | 1,895 | 1,803 | 1,807 | 1,840 | 1,816 | 1,918 |
| Farm machinery and equipment..... | 755 | 863 | 898 | 828 | 888 | 866 | 1,814 | 1,810 | 1,814 | 1,832 | 1,828 | 2,065 |
| Construction, mining, and material handling equipment..... | 1,665 | 1,713 | 1,630 | 1,812 | 1,747 | 1,755 | 4,875 | 4,893 | 4,946 | 4,890 | 4,937 | 4,953 |
| Metalworking machinery..... | 542 | 548 | 518 | 609 | 560 | 588 | 1,569 | 1,583 | 1,605 | 1,561 | 1,593 | 1,848 |
| General industrial machinery..... | 902 | 912 | 883 | 999 | 926 | 859 | 1,966 | 1,949 | 1,953 | 1,988 | 1,988 | 2,058 |
| Electrical machinery, total..... | 6,009 | 6,208 | 6,194 | 6,374 | 5,987 | 5,630 | 13,495 | 13,330 | 13,258 | 13,755 | 13,653 | 13,839 |
| Electrical transmission and distribution equipment and industrial apparatus..... | 1,220 | 1,241 | 1,262 | 1,320 | 1,290 | 1,147 | 2,903 | 2,887 | 2,860 | 2,921 | 2,932 | 3,015 |
| Household appliances..... | 862 | 863 | 1,478 | 940 | 879 | 836 | 1,260 | 1,233 | 1,185 | 1,294 | 1,276 | 1,152 |
| Radio and TV..... | 467 | 690 | 592 | 540 | 492 | 457 | 1,039 | 969 | 987 | 1,102 | 1,062 | 1,077 |
| Communication equipment..... | 1,264 | 1,318 | 1,308 | 1,349 | 1,302 | 1,291 | 4,147 | 4,099 | 4,092 | 4,188 | 4,164 | 4,222 |
| Transportation equipment, total..... | 12,100 | 11,387 | 11,614 | 12,982 | 11,961 | 10,131 | 21,960 | 21,648 | 21,498 | 21,495 | 21,567 | 21,044 |
| Motor vehicles and parts.... | 8,774 | 8,009 | 8,117 | 9,431 | 8,409 | 6,659 | 6,609 | 6,388 | 6,248 | 6,226 | 6,311 | 5,985 |
| Aircraft, missiles, and parts..... | 2,169 | 2,191 | 2,287 | 2,273 | 2,252 | 2,265 | 11,795 | 11,855 | 11,956 | 11,765 | 11,903 | 11,585 |
| Shipbuilding and railroad equipment..... | 607 | 618 | 590 | 617 | 623 | 633 | 2,763 | 2,682 | 2,619 | 2,730 | 2,623 | 2,779 |
| Instruments and related products, total..... | 1,560 | 1,571 | 1,566 | 1,658 | 1,566 | 1,493 | 3,775 | 3,767 | 3,732 | 3,867 | 3,866 | 4,065 |
| Scientific and engineering..... | 790 | 841 | 824 | 849 | 846 | 798 | 1,978 | 1,943 | 1,952 | 2,010 | 1,981 | 2,021 |
| All other instruments and related products..... | 770 | 730 | 742 | 809 | 720 | 695 | 1,797 | 1,824 | 1,780 | 1,857 | 1,885 | 2,044 |
| All other durable goods industries..... | 4,880 | 4,851 | 4,826 | 5,164 | 4,901 | 4,490 | 8,458 | 8,347 | 8,307 | 8,489 | 8,414 | 8,283 |
| Nondurable goods industries, total..... | 45,295 | 45,766 | 46,107 | 46,978 | 45,501 | 41,795 | 53,301 | 52,460 | 51,988 | 53,291 | 52,758 | 49,250 |
| Food and kindred products, total..... | 14,229 | 14,532 | 14,763 | 14,627 | 14,337 | 14,059 | 11,980 | 11,839 | 11,845 | 11,620 | 11,603 | 10,385 |
| Meat products..... | 3,121 | 3,169 | 3,222 | 3,143 | 3,197 | 3,197 | 1,356 | 1,367 | 1,334 | 1,371 | 1,406 | 1,226 |
| Fats and oils..... | 1,287 | 1,254 | 1,281 | 1,313 | 1,255 | 1,178 | 1,084 | 1,026 | 982 | 1,035 | 1,010 | 655 |
| Tobacco products..... | 609 | 595 | 644 | 657 | 602 | 627 | 3,416 | 3,396 | 3,331 | 3,266 | 3,349 | 2,959 |
| Textile mill products..... | 3,293 | 3,362 | 3,238 | 3,496 | 3,288 | 2,924 | 4,777 | 4,728 | 4,678 | 4,932 | 4,910 | 4,336 |
| Paper and allied products, total..... | 3,939 | 3,995 | 3,882 | 4,116 | 3,966 | 3,419 | 4,868 | 4,799 | 4,747 | 4,933 | 4,862 | 4,658 |
| Pulp, paper, etc..... | 1,852 | 1,883 | 1,869 | 1,916 | 1,869 | 1,512 | 1,873 | 1,829 | 1,782 | 1,889 | 1,841 | 1,793 |
| Paperboard containers..... | 859 | 868 | 838 | 903 | 881 | 784 | 1,302 | 1,281 | 1,271 | 1,314 | 1,294 | 1,218 |
| All other paper containers.. | 1,228 | 1,244 | 1,175 | 1,297 | 1,216 | 1,123 | 1,693 | 1,689 | 1,694 | 1,730 | 1,727 | 1,647 |
| Chemicals and allied products, total..... | 7,846 | 7,867 | 8,183 | 8,325 | 8,379 | 7,374 | 11,373 | 11,214 | 11,088 | 11,366 | 11,248 | 10,922 |
| Industrial chemicals, except pigments..... | 2,647 | 2,686 | 2,724 | 2,798 | 2,796 | 2,315 | 3,220 | 3,153 | 3,069 | 3,169 | 3,115 | 2,972 |
| Drugs, soap, and toiletries..... | 2,232 | 2,191 | 2,266 | 2,239 | 2,022 | 2,067 | 3,640 | 3,635 | 3,647 | 3,749 | 3,704 | 3,803 |
| Petroleum and coal products... total..... | 6,186 | 6,037 | 6,084 | 6,307 | 5,946 | 5,376 | 4,561 | 4,361 | 4,290 | 4,495 | 4,313 | 4,048 |
| Rubber and plastics products, total..... | 2,161 | 2,215 | 2,214 | 2,309 | 2,284 | 2,116 | 3,003 | 3,022 | 3,032 | 3,000 | 3,035 | 3,048 |
| All other nondurable goods industries..... | 7,032 | 7,163 | 7,099 | 7,141 | 6,699 | 5,900 | 9,323 | 9,101 | 8,977 | 9,679 | 9,438 | 8,894 |

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP--Continued

Millions of dollars

| Industry group | New orders | | | | | | Unfilled orders | | | | | |
|--|------------------------|-----------------------|-----------|--|-----------------------|-----------|------------------------|-----------------------|-----------|--|-----------------------|-----------|
| | Seasonally adjusted | | | Without seasonal adjustment ¹ | | | Seasonally adjusted | | | Without seasonal adjustment ¹ | | |
| | June 1976 ^p | May 1976 ^r | Apr. 1976 | June 1976 ^p | May 1976 ^r | June 1975 | June 1976 ^p | May 1976 ^r | Apr. 1976 | June 1976 ^p | May 1976 ^r | June 1975 |
| All manufacturing industries: | | | | | | | | | | | | |
| Total..... | 93,501 | 95,494 | 94,141 | 100,150 | 94,568 | 83,716 | 122,262 | 120,790 | 119,390 | 121,185 | 120,335 | 122,274 |
| Total, excluding transportation..... | 83,145 | 84,042 | 82,569 | 87,209 | 83,168 | 74,113 | 90,541 | 89,324 | 87,936 | 90,200 | 89,309 | 90,787 |
| Durable goods industries, total..... | 50,304 | 49,681 | 47,841 | 53,327 | 49,007 | 41,737 | 116,749 | 115,181 | 113,828 | 115,604 | 114,596 | 118,065 |
| Primary metals, total..... | 8,055 | 8,805 | 7,238 | 8,430 | 8,320 | 5,664 | 15,734 | 15,424 | 14,216 | 15,614 | 15,425 | 14,441 |
| Blast furnaces, steel mills..... | 4,296 | 4,985 | 3,634 | 4,491 | 4,479 | 2,861 | 10,682 | 10,476 | 9,418 | 10,629 | 10,424 | 9,222 |
| Nonferrous metals..... | 2,583 | 2,651 | 2,478 | 2,680 | 2,642 | 1,889 | 3,238 | 3,127 | 2,962 | 3,160 | 3,155 | 2,649 |
| Fabricated metal products..... | 6,090 | 6,094 | 5,788 | 6,498 | 6,085 | 5,031 | 16,638 | 16,587 | 16,722 | 16,680 | 16,646 | 18,373 |
| Machinery, except electrical, total..... | 7,970 | 8,033 | 8,064 | 8,660 | 8,091 | 7,605 | 23,889 | 23,942 | 24,039 | 23,907 | 24,075 | 26,812 |
| Engines and turbines..... | 610 | 765 | 592 | 686 | 750 | 556 | 6,778 | 6,756 | 6,626 | 6,768 | 6,784 | 6,837 |
| Construction, mining, and material handling equipment..... | 1,652 | 1,612 | 1,543 | 1,819 | 1,639 | 1,659 | 5,058 | 5,974 | 5,172 | 5,144 | 5,998 | 6,705 |
| Metalworking machinery..... | 544 | 515 | 503 | 614 | 524 | 518 | 1,534 | 1,532 | 1,565 | 1,518 | 1,513 | 1,985 |
| General industrial machinery..... | 921 | 917 | 961 | 954 | 887 | 823 | 3,396 | 3,376 | 3,371 | 3,375 | 3,420 | 3,530 |
| Electrical machinery, total..... | 6,626 | 6,618 | 6,396 | 6,900 | 6,207 | 5,407 | 20,104 | 19,486 | 19,076 | 19,649 | 19,123 | 18,788 |
| Electrical transmission and distribution equipment and industrial apparatus..... | 1,181 | 1,257 | 1,280 | 1,315 | 1,307 | 966 | 5,394 | 5,433 | 5,416 | 5,430 | 5,436 | 5,761 |
| Household appliances..... | 864 | 865 | 890 | 933 | 878 | 839 | 133 | 131 | 128 | 126 | 133 | 130 |
| Radio and TV..... | 478 | 691 | 531 | 586 | 514 | 475 | 417 | 406 | 405 | 452 | 406 | 376 |
| Communication equipment..... | 1,912 | 1,665 | 1,498 | 1,816 | 1,384 | 1,365 | 8,381 | 7,733 | 7,387 | 7,824 | 7,357 | 6,909 |
| Transportation equipment, total..... | 12,356 | 11,400 | 11,572 | 12,941 | 11,452 | 9,603 | 31,721 | 31,466 | 31,454 | 30,985 | 31,026 | 31,487 |
| Aircraft, missiles, and parts..... | 2,306 | 2,251 | 1,770 | 2,343 | 1,969 | 2,073 | 19,902 | 19,766 | 19,707 | 19,451 | 19,382 | 20,108 |
| Shipbuilding and railroad equipment..... | 675 | 460 | 1,043 | 615 | 365 | 592 | 8,097 | 8,029 | 8,187 | 8,018 | 8,020 | 8,237 |
| All other durable goods industries..... | 9,207 | 8,731 | 8,783 | 9,898 | 8,852 | 8,427 | 8,663 | 8,276 | 8,321 | 8,769 | 8,301 | 8,164 |
| Nondurable goods industries, total..... | 45,197 | 45,813 | 46,300 | 46,823 | 45,561 | 41,989 | 5,513 | 5,609 | 5,562 | 5,581 | 5,739 | 4,209 |
| Industries with unfilled orders..... | 10,726 | 10,954 | 10,958 | 11,075 | 10,805 | 9,660 | 5,513 | 5,609 | 5,562 | 5,581 | 5,739 | 4,209 |
| Industries without unfilled orders..... | 34,471 | 34,859 | 35,342 | 35,748 | 34,756 | 32,329 | - | - | - | - | - | - |

- Represents zero. ^pPreliminary. ^rRevised.
¹Adjusted for trading-day and calendar-month variations.

Table 2. -VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES

(Millions of dollars)

| Industry group | Seasonally adjusted | | | Without seasonal adjustment ¹ | | | Seasonally adjusted | | | Without seasonal adjustment | | |
|--|------------------------|-----------------------|-----------|--|-----------------------|-----------|------------------------|-----------------------|-----------|-----------------------------|-----------------------|-----------|
| | June 1976 ^P | May 1976 ^R | Apr. 1976 | June 1976 ^P | May 1976 ^R | June 1975 | June 1976 ^P | May 1976 ^R | Apr. 1976 | June 1976 ^P | May 1976 ^R | June 1975 |
| | Shipments | | | | | | Total inventories | | | | | |
| All manufacturing industries, total.. | 94,028 | 94,087 | 93,848 | 99,294 | 94,864 | 85,580 | 150,777 | 149,039 | 148,121 | 150,816 | 150,159 | 148,160 |
| Durable goods industries, total..... | 48,733 | 48,321 | 47,741 | 52,316 | 49,363 | 43,785 | 97,476 | 96,579 | 96,133 | 97,525 | 97,401 | 98,910 |
| Nondurable goods industries, total..... | 45,295 | 45,766 | 46,107 | 46,978 | 45,501 | 41,795 | 53,301 | 52,460 | 51,988 | 53,291 | 52,758 | 49,250 |
| Industry groups arranged by market categories: | | | | | | | | | | | | |
| Home goods and apparel..... | 8,477 | 8,879 | 8,617 | 8,842 | 8,198 | 7,468 | 13,842 | 13,509 | 13,391 | 14,410 | 14,147 | 13,126 |
| Consumer staples..... | 17,653 | 17,923 | 18,230 | 18,076 | 17,566 | 17,200 | 19,688 | 19,532 | 19,502 | 19,343 | 19,345 | 18,320 |
| Equipment and defense products, except automotive..... | 11,892 | 12,198 | 12,169 | 12,902 | 12,423 | 12,215 | 37,777 | 37,555 | 37,744 | 37,825 | 37,856 | 39,015 |
| Automotive equipment..... | 9,959 | 9,262 | 9,457 | 10,796 | 9,795 | 7,942 | 8,127 | 7,905 | 7,748 | 7,715 | 7,841 | 7,566 |
| Construction materials, supplies, and intermediate products..... | 7,291 | 7,433 | 7,335 | 8,009 | 7,708 | 6,551 | 12,438 | 12,509 | 12,425 | 12,543 | 12,660 | 12,927 |
| Other materials and supplies and intermediate products..... | 38,756 | 38,392 | 38,040 | 40,669 | 39,174 | 34,204 | 58,905 | 58,029 | 57,311 | 58,982 | 58,310 | 57,206 |
| Supplementary series: ² | | | | | | | | | | | | |
| Household durable goods industries..... | 3,695 | 3,894 | 3,776 | 3,901 | 3,708 | 3,380 | 6,680 | 6,496 | 6,439 | 6,858 | 6,739 | 6,684 |
| Capital goods industries..... | 13,531 | 13,589 | 13,563 | 14,599 | 13,802 | 13,549 | 42,529 | 42,371 | 42,426 | 42,610 | 42,707 | 43,611 |
| Nondefense..... | 11,807 | 11,666 | 11,701 | 12,784 | 11,890 | 11,793 | 34,054 | 34,099 | 34,261 | 34,163 | 34,438 | 36,263 |
| Defense..... | 1,724 | 1,923 | 1,862 | 1,815 | 1,912 | 1,756 | 8,475 | 8,272 | 8,165 | 8,447 | 8,269 | 7,348 |
| | New orders | | | | | | Unfilled orders | | | | | |
| All manufacturing industries, total.. | 95,501 | 95,494 | 94,141 | 100,150 | 94,568 | 83,716 | 122,262 | 120,790 | 119,390 | 121,185 | 120,335 | 122,274 |
| Durable goods industries, total..... | 50,304 | 49,681 | 47,841 | 53,327 | 49,007 | 41,737 | 116,749 | 115,181 | 113,828 | 115,604 | 114,596 | 118,065 |
| Nondurable goods industries, total..... | 45,197 | 45,813 | 46,300 | 46,823 | 45,561 | 41,979 | 5,513 | 5,609 | 5,562 | 5,581 | 5,739 | 4,209 |
| Industry groups arranged by market categories: | | | | | | | | | | | | |
| Home goods and apparel..... | 8,472 | 8,863 | 8,610 | 8,867 | 8,224 | 7,526 | 2,397 | 2,389 | 2,407 | 2,392 | 2,374 | 2,171 |
| Consumer staples..... | 17,666 | 17,922 | 18,226 | 18,071 | 17,561 | 17,203 | | | | | | |
| Equipment and defense products, except automotive..... | 13,130 | 12,405 | 12,454 | 13,947 | 11,887 | 11,741 | 61,112 | 59,822 | 59,506 | 60,084 | 59,145 | 61,008 |
| Automotive equipment..... | 10,010 | 9,373 | 9,479 | 10,687 | 9,827 | 7,647 | | | | | | |
| Construction materials, supplies, and intermediate products..... | 7,240 | 7,278 | 7,074 | 7,981 | 7,521 | 6,423 | 14,877 | 14,928 | 15,063 | 14,998 | 15,027 | 16,720 |
| Other materials and supplies and intermediate products..... | 38,983 | 39,633 | 38,298 | 40,597 | 39,548 | 33,176 | 43,876 | 43,651 | 42,414 | 43,711 | 43,789 | 42,375 |
| Supplementary series: ² | | | | | | | | | | | | |
| Household durable goods industries..... | 3,711 | 3,889 | 3,759 | 3,950 | 3,725 | 3,420 | 1,707 | 1,692 | 1,698 | 1,699 | 1,651 | 1,553 |
| Capital goods industries..... | 14,582 | 13,710 | 13,674 | 15,334 | 13,082 | 12,738 | 68,269 | 67,218 | 67,080 | 67,311 | 66,576 | 69,754 |
| Nondefense..... | 11,836 | 11,664 | 11,530 | 12,722 | 11,584 | 10,926 | 41,249 | 41,221 | 41,225 | 41,226 | 41,289 | 45,517 |
| Defense..... | 2,746 | 2,066 | 2,144 | 2,612 | 1,498 | 1,812 | 27,020 | 25,997 | 25,855 | 26,085 | 25,287 | 24,237 |

¹During 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in the defense series. ^PPreliminary. ^RRevised. ²Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. ³The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
 Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products' old series categories.
 Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communications, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-173, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

| Item and industry group | Month-to-month | | | Average monthly rates of change | | | | Average, 1970-1975 | |
|---|----------------|---------------|----------------|---------------------------------|---------------------|-----------------|----------------------------------|--------------------|-----------------|
| | May-June 1976 | Apr.-May 1976 | Mar.-Apr. 1976 | 3 months | | | 12 months June 1975-June 1976 | Average rise | Average decline |
| | | | | Mar.-June 1976 | Dec. 1975-Mar. 1976 | Sept.-Dec. 1975 | | | |
| Shipments: | | | | | | | | | |
| All manufacturing industries..... | -0.1 | +0.3 | +0.9 | -0.4 | +2.0 | -0.6 | +1.3 | +1.4 | -1.6 |
| Durable goods industries, total..... | -0.9 | +1.2 | +0.4 | -0.8 | +2.8 | -0.4 | +1.5 | -1.5 | -2.2 |
| Nondurable goods industries, total..... | -1.0 | -0.7 | +1.3 | -0.1 | +1.2 | -0.7 | +1.0 | -1.5 | -1.2 |
| Total inventories: | | | | | | | | | |
| All manufacturing industries..... | -1.2 | +0.6 | -0.0 | -0.6 | +0.4 | +0.0 | +0.2 | +0.9 | -0.3 |
| New orders: | | | | | | | | | |
| All manufacturing industries..... | +0.0 | +1.4 | -0.8 | +0.7 | +2.5 | +0.5 | +1.5 | +1.8 | -1.9 |
| Durable goods industries, total..... | +1.3 | +3.8 | -0.1 | +1.7 | +3.8 | -0.4 | +2.1 | +2.4 | -2.7 |
| Nondurable goods industries, total..... | -1.3 | -1.1 | -1.8 | -0.2 | +1.2 | -0.6 | -0.9 | -1.5 | -1.3 |
| Unfilled orders: | | | | | | | | | |
| Durable goods industries, total..... | +1.4 | 1.2 | 0.1 | -0.9 | -0.5 | -0.7 | -0.2 | -1.7 | -1.2 |

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

Millions of dollars

| Industry group | Seasonally adjusted | | | Without seasonal adjustment | | | Seasonally adjusted | | | Without seasonal adjustment | | |
|---|------------------------|-----------------------|------------------------|-----------------------------|-----------------------|-----------|------------------------|-----------------------|------------------------|-----------------------------|-----------------------|-----------|
| | June 1976 ^P | May 1976 ^F | Apr. 1976 ^F | June 1976 ^P | May 1976 ^F | June 1975 | June 1976 ^P | May 1976 ^F | Apr. 1976 ^F | June 1976 ^P | May 1976 ^F | June 1975 |
| | Total | | | | | | Materials and supplies | | | | | |
| All manufacturing industries, total.. | 150,777 | 149,039 | 148,121 | 150,816 | 150,159 | 148,160 | 52,519 | 51,951 | 51,447 | 52,149 | 51,563 | 51,597 |
| Durable goods industries, total..... | 97,476 | 96,579 | 96,133 | 97,525 | 97,401 | 96,910 | 31,516 | 31,335 | 31,175 | 31,305 | 31,003 | 32,511 |
| Stone, clay, and glass products..... | 3,655 | 3,610 | 3,568 | 3,716 | 3,727 | 3,753 | 1,319 | 1,303 | 1,349 | 1,318 | 1,303 | 1,421 |
| Primary metals..... | 14,662 | 14,442 | 14,227 | 14,493 | 14,389 | 11,654 | 6,655 | 6,598 | 6,575 | 6,512 | 6,354 | 4,628 |
| Machinery (electrical and nonelectrical) ¹ | 34,410 | 34,127 | 34,109 | 34,680 | 34,628 | 35,967 | 9,983 | 10,078 | 10,048 | 10,045 | 10,123 | 10,992 |
| Transportation equipment..... | 21,960 | 21,648 | 21,498 | 21,495 | 21,567 | 21,044 | 4,983 | 4,737 | 4,606 | 4,765 | 4,702 | 4,553 |
| All other durable goods industries..... | 22,789 | 22,752 | 22,731 | 23,141 | 23,090 | 24,002 | 8,576 | 8,619 | 8,597 | 8,665 | 8,521 | 9,202 |
| Nondurable goods industries, total..... | 53,301 | 52,460 | 51,988 | 53,291 | 52,758 | 49,250 | 21,003 | 20,616 | 20,272 | 20,844 | 20,560 | 19,086 |
| Chemicals and allied products..... | 11,373 | 11,214 | 11,088 | 11,366 | 11,248 | 10,922 | 4,363 | 4,325 | 4,304 | 4,347 | 4,300 | 4,410 |
| Petroleum and coal products..... | 4,561 | 4,361 | 4,290 | 4,495 | 4,313 | 4,048 | 1,280 | 1,200 | 1,157 | 1,289 | 1,198 | 1,084 |
| Rubber and plastics products, n.e.c..... | 3,003 | 3,022 | 3,032 | 3,000 | 3,035 | 3,048 | 1,212 | 1,166 | 1,093 | 1,214 | 1,156 | 1,039 |
| All other nondurable goods industries.... | 34,364 | 33,863 | 33,578 | 34,430 | 34,162 | 31,232 | 14,148 | 13,925 | 13,718 | 13,994 | 13,906 | 12,553 |
| | Work in process | | | | | | Finished goods | | | | | |
| All manufacturing industries, total.. | 49,670 | 49,201 | 49,097 | 49,473 | 49,500 | 49,138 | 48,588 | 47,887 | 47,577 | 49,194 | 49,096 | 47,425 |
| Durable goods industries, total..... | 41,479 | 41,132 | 41,040 | 41,218 | 41,330 | 41,680 | 24,481 | 24,112 | 23,918 | 25,002 | 25,068 | 24,719 |
| Stone, clay, and glass products..... | 539 | 537 | 508 | 551 | 559 | 512 | 1,797 | 1,770 | 1,711 | 1,847 | 1,865 | 1,820 |
| Primary metals..... | 4,679 | 4,597 | 4,411 | 4,625 | 4,640 | 3,709 | 3,328 | 3,247 | 3,241 | 3,356 | 3,395 | 3,317 |
| Machinery (electrical and nonelectrical) ¹ | 14,688 | 14,503 | 14,550 | 14,664 | 14,614 | 15,145 | 9,739 | 9,546 | 9,511 | 9,971 | 9,891 | 9,830 |
| Transportation equipment..... | 14,940 | 14,903 | 14,937 | 14,703 | 14,852 | 14,589 | 2,037 | 2,008 | 1,955 | 2,027 | 2,013 | 1,902 |
| All other durable goods industries..... | 6,633 | 6,592 | 6,634 | 6,675 | 6,665 | 7,043 | 7,580 | 7,541 | 7,500 | 7,801 | 7,904 | 7,757 |
| Nondurable goods industries, total..... | 8,191 | 8,069 | 8,057 | 8,255 | 8,170 | 7,458 | 24,107 | 23,775 | 23,659 | 24,192 | 24,028 | 22,706 |
| Chemicals and allied products..... | 1,828 | 1,813 | 1,812 | 1,836 | 1,831 | 1,803 | 5,182 | 5,076 | 4,972 | 5,183 | 5,117 | 4,709 |
| Petroleum and coal products..... | 1,222 | 1,203 | 1,224 | 1,240 | 1,214 | 1,016 | 2,059 | 1,958 | 1,909 | 1,966 | 1,901 | 1,948 |
| Rubber and plastics products, n.e.c..... | 489 | 483 | 496 | 486 | 479 | 502 | 1,302 | 1,373 | 1,443 | 1,300 | 1,400 | 1,507 |
| All other nondurable goods industries.... | 4,652 | 4,570 | 4,525 | 4,693 | 4,646 | 4,137 | 15,564 | 15,368 | 15,335 | 15,743 | 15,610 | 14,542 |

^PPreliminary.^FRevised.¹These reflect revised adjusted April figures for Machinery (electrical and nonelectrical) materials and supplies, work-in-process, and finished goods. The unadjusted figures for April are: materials and supplies, 10,145; work-in-process, 14,663; and finished goods, 9,757.

Table 5.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

| Industry group | Inventories - shipments ratio | | | | Unfilled orders - shipments ratio ¹ months' backlog | | | |
|--|-------------------------------|--------------------------|--------------|--------------|---|--------------------------|--------------|--------------|
| | June 1976 ^P | May 1976 ^P | Apr. 1976 | June 1975 | June 1976 ^P | May 1976 ^P | Apr. 1976 | June 1975 |
| All manufacturing industries, total..... | 1.60 | 1.58 | 1.58 | 1.83 | 2.33 | 2.35 | 2.36 | 2.75 |
| Durable goods industries, total..... | 2.00 | 2.00 | 2.01 | 2.42 | 2.81 | 2.85 | 2.86 | 3.34 |
| Stone, clay, and glass products..... | 1.54 | 1.53 | 1.50 | 1.74 | (NA) | (NA) | (NA) | (NA) |
| Primary metals..... | 1.89 | 1.90 | 2.00 | 2.40 | 2.03 | 2.03 | 2.00 | 2.44 |
| Fabricated metals..... | 1.75 | 1.71 | 1.78 | 2.33 | 3.06 | 2.97 | 3.10 | 4.23 |
| Machinery, except electrical..... | 2.61 | 2.56 | 2.58 | 3.00 | 2.98 | 2.95 | 2.98 | 3.63 |
| Electrical machinery..... | 2.25 | 2.15 | 2.14 | 2.56 | 3.35 | 3.14 | 3.08 | 3.61 |
| Transportation equipment..... | 1.81 | 1.90 | 1.85 | 2.27 | 5.38 | 5.42 | 5.42 | 6.14 |
| Instruments and related products..... | 2.42 | 2.40 | 2.38 | 2.83 | (NA) | (NA) | (NA) | (NA) |
| Nondurable goods industries, total..... | 1.18 | 1.15 | 1.13 | 1.22 | 0.51 | 0.51 | 0.52 | 0.45 |
| Food and kindred products..... | 0.84 | 0.81 | 0.80 | 0.78 | (X) | (X) | (X) | (X) |
| Tobacco products..... | 5.61 | 5.71 | 5.17 | 5.32 | (X) | (X) | (X) | (X) |
| Textile mill products..... | 1.45 | 1.41 | 1.44 | 1.53 | (NA) | (NA) | (NA) | (NA) |
| Paper and allied products..... | 1.24 | 1.20 | 1.22 | 1.41 | (NA) | (NA) | (NA) | (NA) |
| Chemicals and allied products..... | 1.45 | 1.43 | 1.36 | 1.57 | (X) | (X) | (X) | (X) |
| Petroleum and coal products..... | 0.74 | 0.72 | 0.71 | 0.78 | (X) | (X) | (X) | (X) |
| Rubber and plastics products, n.e.c..... | 1.39 | 1.36 | 1.37 | 1.55 | (X) | (X) | (X) | (X) |

NA Not available. P Preliminary. R Revised. X Not applicable.

¹Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

Appendix

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported

in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if

feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They

also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of partial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.

